12CR6

DIODE—REMOTE-CUTOFF PENTODE

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

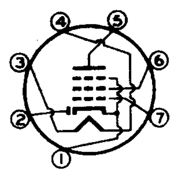
Heater, for Unipotential Cathode:

Voltage	12.6	ac or dc volts
Current	0.15	amp

Mechanical:

Mounting Position	Any
Maximum Overall Length	2-1/8"
Maximum Seated Length	1-7/8"
Length, Base Seat to Bulb Top (Excluding tip)	1-1/2" ± 3/32"
Maximum Diameter	3/4"
Dimensional Outline	*See General Section*
Bulb	T-5-1/2
Base	Small-Button Miniature 7-Pin (JETEC No. E7-1)
Basing Designation for BOTTOM VIEW	7EA

Pin 1 - Cathode, Pentode Grid No. 3
Pin 2 - Diode Plate
Pin 3 - Heater
Pin 4 - Heater



Pin 5 - Pentode Plate
Pin 6 - Pentode Grid No. 2
Pin 7 - Pentode Grid No. 1

PENTODE UNIT - Class A_1 Amplifier

Maximum Ratings, *Design-Center Values:*

PLATE VOLTAGE	300 max.	volts
GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE	300 max.	volts
GRID-No.2 VOLTAGE	*See Grid-No. 2 Input Rating Chart at front of Receiving Tube Section*	
GRID-No.1 (CONTROL-GRID) VOLTAGE:		
Positive bias value	0 max.	volts
PLATE DISSIPATION	2.5 max.	watts
GRID-No.2 INPUT:		
For grid-No.2 voltages up to 150 volts	0.3 max.	watt
For grid-No.2 voltages between 150 and 300 volts	*See Grid-No. 2 Input Rating Chart at front of Receiving Tube Section*	
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	100 max.	volts
Heater positive with respect to cathode	100 max.	volts

Characteristics:

Plate Voltage	250	volts
Grid-No.2 Voltage	100	volts
Grid-No.1 Voltage	-2	volts
Plate Resistance (Approx.)	0.8	megohm
Transconductance	2200	μmhos

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Plate Current.	9.6	ma
Grid-No.2 Current.	2.6	ma
Grid-No.1 Voltage (Approx.) for transconductance of 10 μmhos	-32	volts

Maximum Circuit Values:

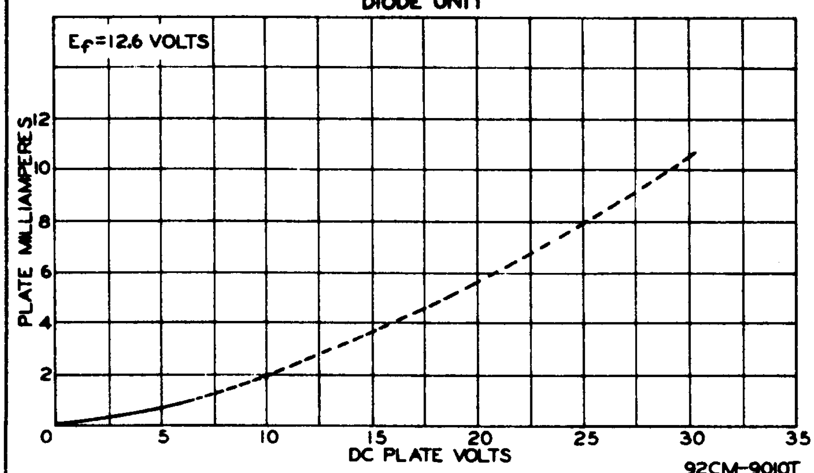
Grid-No.1-Circuit Resistance:		
For cathode-bias operation	1.0 max.	megohm
For fixed-bias operation	0.25 max.	megohm

DIODE UNIT

Maximum Ratings, ***Design-Center Values:***

PLATE CURRENT.	1.0 max.	ma

AVERAGE PLATE CHARACTERISTIC
DIODE UNIT

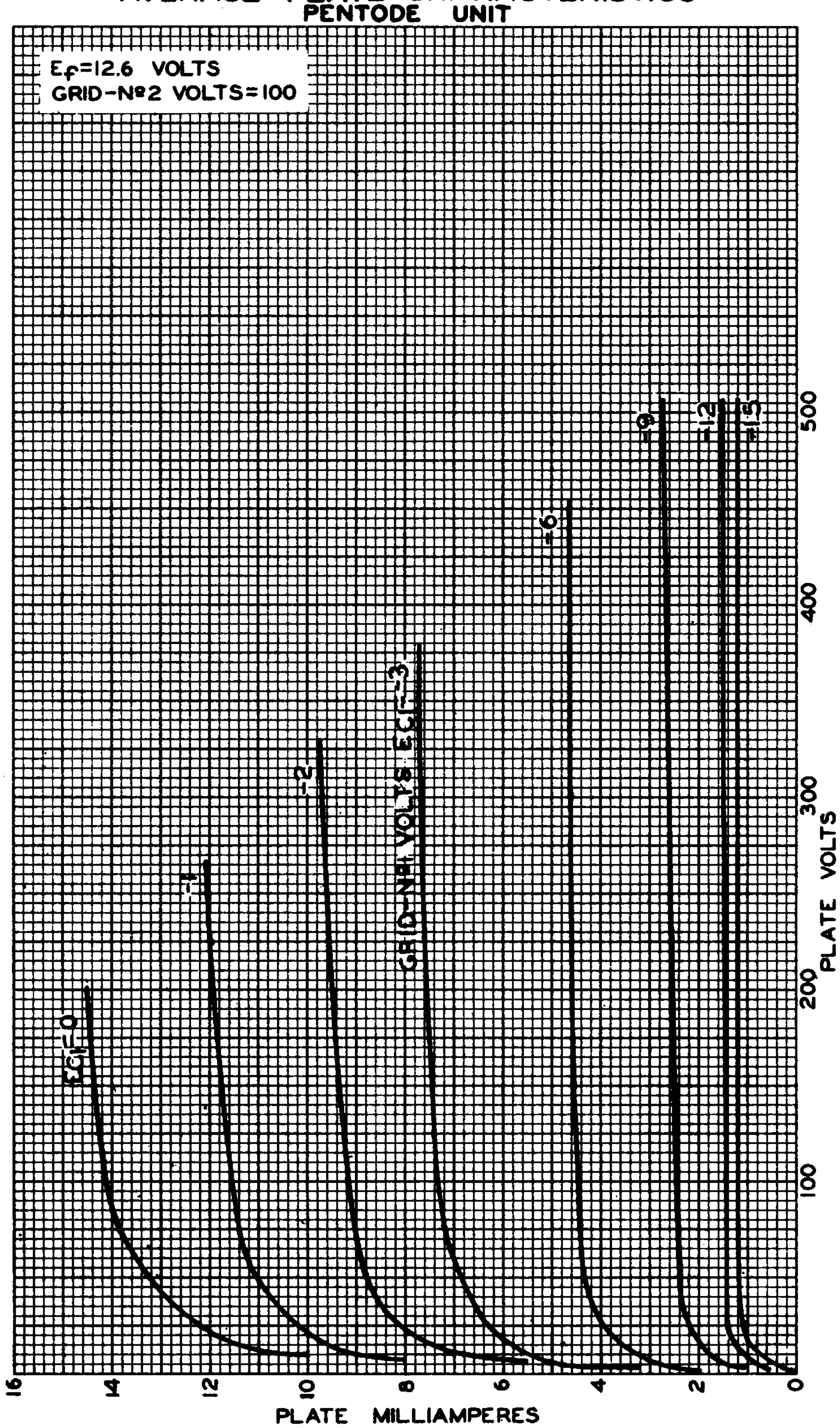


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AVERAGE PLATE CHARACTERISTICS
PENTODE UNIT

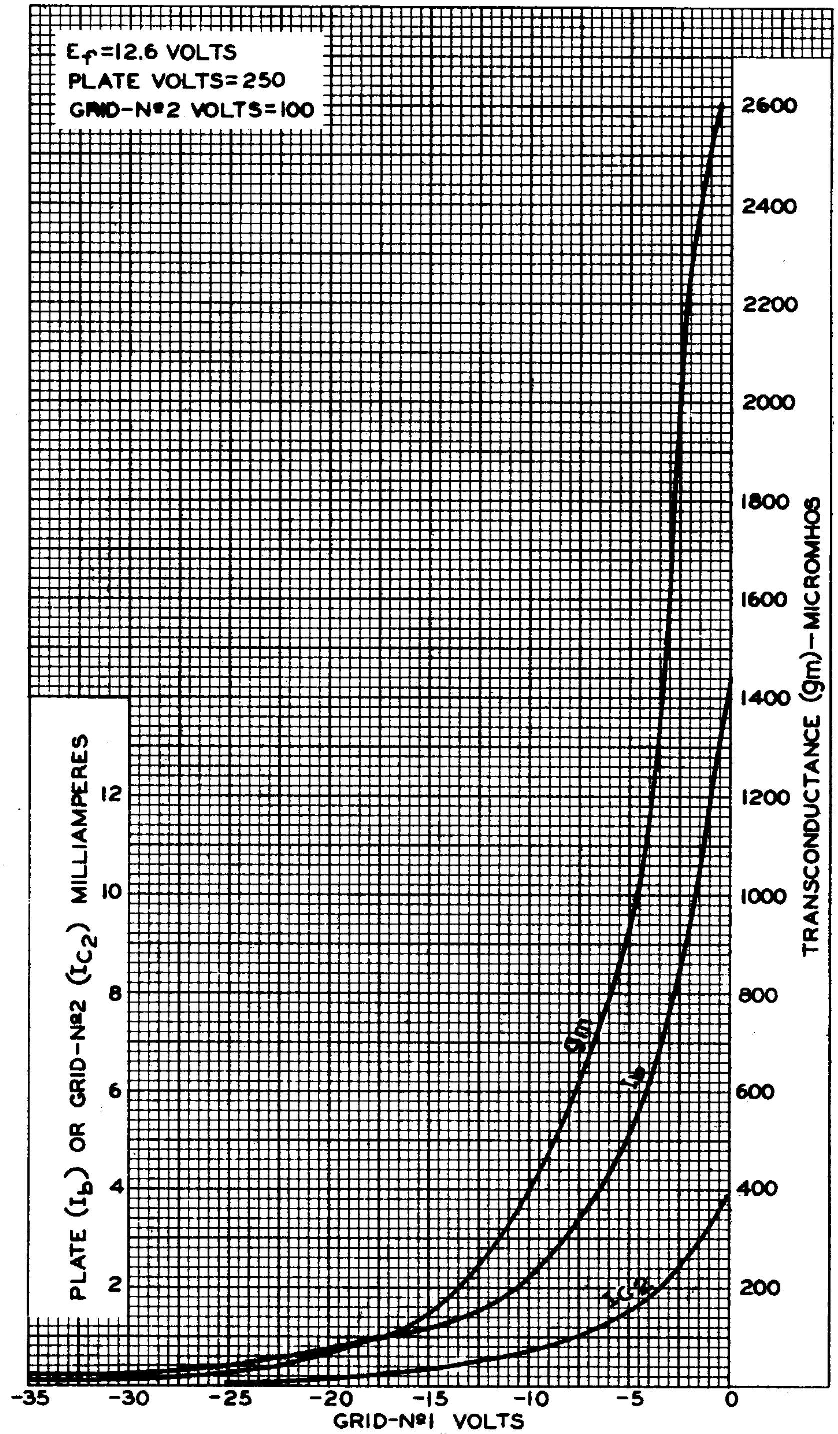


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92CM-9006

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AVERAGE CHARACTERISTICS
PENTODE UNIT



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92CM-9004